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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/796,663	03/05/2004	Jeanne Chang	RD 03006	3141
7590 09/10/2004			EXAMINER	
KEVIN E. MC VEIGH			CARRILLO, BIBI SHARIDAN	
RHODIA INC.				
CN 7500			ART UNIT	
CRANBURY, NJ 08512-7500			PAPER NUMBER	
			1746	

DATE MAILED: 09/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>		<b>Applicant(s)</b>	
	10/796,663		CHANG ET AL.	
	<b>Examiner</b>		<b>Art Unit</b>	
	Sharidan Carrillo		1746	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 05 March 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>04022004</u> . | 6) <input type="checkbox"/> Other: _____  |

***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 2-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 2-3 are indefinite because it is unclear what is meant by primary surfactant, the term primary lacks positive antecedent basis.

***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-4, 8, and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Zhou et al. (6017561).

Zhou et al. teach an aqueous hard surface cleaner comprising a surfactant (col. 4, lines 55-60), a quaternary ammonium surfactant (col.3-4 bridging); a hydrophilic polymer comprising styrene sulfonate repeating units (col. 3, lines 25-40) and water (col. 6, lines 49-52). Col. 6, lines 55-60 teaches pH of from 8-13. In reference to claim 2, Zhou et al. teaches 0.5-10% surfactant (col. 4, lines 55-60), 0.025-8% quaternary ammonium compound, and 0.05-15% polymer. In reference to claim 3, refer to col. 4,

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lines 55-60. In reference to claim 4, refer to col.3-4 bridging. In reference to claim 8, refer to col. 6, lines 18-47. In reference to claim 10, refer to col. 1, lines 5-10.

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

8. Claims 5-7 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhou et al. (6017561) in view of Gordon (6225277).

In reference to claims 5-7, Zhou et al. teach the invention substantially as claimed with the exception of para-styrene sulfonate. In col. 3, lines 30-35, Zhou et al. teach styrene sulfonate, but fails to teach para-styrene sulfonate. Gordon teaches hard surface cleaning compositions comprising sulfonated polystyrene. In col. 8, lines 10 and 25 and col. 2, lines 35-40, Gordon teaches poly (sodium styrene sulfonate manufactured by National Starch, and sold under the tradename Versaflex. Gordon fails to specifically recite the para styrene sulfonate. However, it is notoriously well known, as recited by WO9604358, and US patent 6187731, that para-styrene sulfonate is equivalent to the trademark Versaflex 7000.

It would have been obvious to a person of ordinary skill in the art to have modified the styrene sulfonate of Zhou et al., to include the para-styrene sulfonate, as taught by Gordon for purposes of performing the same function as an effective hard surface cleaner.

In reference to claim 9, Zhou et al. fail to teach a chelant. Col. 4, lines 53-60 of Gordon et al. teach the addition of chelants to the composition for purposes of enhancing the gloss benefit. Col. 7, lines 3-5 of Gordon teaches that it is conventional to add a variety of additives to the hard surface composition.

It would have been within the level of the skilled artisan to have modified the method of Zhou et al. to include chelants, which as taught by Gordon et al., are conventionally added to the hard surface cleaning compositions.

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9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kott et al. teach a hard surface cleaner. Sherry et al. teach a acidic aqueous cleaning composition. Gordon teaches a hard surface cleaning composition. Geffroy teaches a hard surface cleaning composition using a chelant and sulfonated polymer. Groemminger teaches cleaning contact lenses using polysulfonates. Chang teaches a detergent composition.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sharidan Carrillo whose telephone number is 571-272-1297. The examiner can normally be reached on Monday-Friday, 6:00a.m-2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on 571-272-1414. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sharidan Carrillo  
Primary Examiner  
Art Unit 1746

bsc



SHARIDAN CARRILLO  
PRIMARY EXAMINER